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Rothamsted Experiments.[1] — The present account by Lawes and Gilbert continues the results derived from forty-four years of continuous experimentation upon the same land. The general results so far reached show very characteristic differences in the composition of the ashes of different crops according to the amount of nitrogen they assimilated; and upon this is based the conclusion that "independently of any specially physiological function of the bases, such as that of potash with the formation of carbohydrates, their office was prominently also that of *carriers of nitric acid*, and that when the nitrogen had been assimilated, the base was left as a residue in combination with organic acid, which, according to the character of the plant, was represented more or less completely by carbonic acid in the ash."

D. P. P.

Plants in Calcareous Tufa.[2] — Mr. J. M. Hulth presents an interesting study of the plants found in the calcareous tufa of western Gothland in the region of Falköping and Sköfde, and discusses the vegetation of seven different horizons with respect to their relation to the flora of the Arctic, Boreal, and Atlantic periods. The vegetation found corresponds with existing types.

D. P. P.

Fossil Flora of the Cascade Range.[3] — Studies of the fossil plants associated with the lavas of the Cascade Range, prosecuted during the last five years, have been completed by Professor F. H. Knowlton. Twenty-eight forms in all are described, and they include such types as have hitherto been found in the Miocene only, from which the author concludes unhesitatingly that the beds are of Miocene age.

D. P. P.

Flora of the Coal Layers of Lâ Ternera.[4] — Solms-Laubach presents a short account of the plants derived from the Coal Formation

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[1] Lawes, Sir J. B., and Gilbert, Sir J. H. Agricultural, Botanical, and Chemical Results of Experiments on the Mixed Herbage of Permanent Grass Land; III, Chemical Results, *Phil. Trans. R. Soc.*, vol. cxcii (1900), pp. 139–210.

[2] Hulth, J. M. Ueber einige Kalktuffe aus Westergötland, *Bull. Geol. Inst. of Upsala*, 1898, vol. iv, pp. 5–40, Pl. I.

[3] Knowlton, F. H. Report on the Fossil Plants associated with the Lavas of the Cascade Range, *U. S. Geol. Surv.*, vol. xx, III, 1898–99, pp. 37–52, Pls. I–VI.

[4] Solms-Laubach, H. von Grafen zu. *Neue Jahrb. f. Mineral.*, etc., vol. xii, 1899, pp. 581–609, Pls. XIII, XIV.